

CLAIMS

What is claimed is:

1. A system for providing a roaming subscriber with access to services available in a first telephone network, said subscriber roaming in a second telephone network, the system comprising:
- 5 a packet-switch network connecting said first telephone network with said second telephone network,
- wherein signals required for said services are transmitted between said first telephone network and said second telephone network via said packet-switch network.
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2. A system according to claim 1, wherein said first telephone network is one of a group including: a mobile telephone network, a fixed telephone network, a Global System for Mobile communications (GSM) network, a Time Division Multiple Access (TDMA) network, a Code Division Multiple Access (CDMA) network, an IS-41 network, and a private branch exchange (PBX).
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3. A system according to claim 1, wherein said second telephone network is one of a group including: a mobile telephone network, a fixed telephone network, a Global System for Mobile communications (GSM) network, a Time Division Multiple Access (TDMA) network, a Code Division Multiple Access (CDMA) network, an IS-41 network, and a private branch exchange (PBX).
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4. A system according to claim 1, further comprising a passive System Signaling Number 7 (SS7) monitor for monitoring SS7 signals and triggering

the provision of access to at least one of said services when one of a group of predetermined SS7 signals has been detected.

5. A system according to claim 4, wherein said predetermined SS7 signals are Mobile Application Part (MAP) messages.

5 6. A system according to claim 5, wherein said messages are from a group including: short messages and location updates.

7. A system according to claim 1, further comprising:

a first service node for transmitting said signals between said first telephone network and said packet-switch network; and

10 a second service node for transmitting said signals between said packet-switch network and said second telephone network.

8. A system according to claim 7, wherein said second service node transmits dial tone multi-frequency (DTMF) signals *substantially* concurrently with the creation of a voice path connecting said first telephone network with said second telephone network, and said first service node synchronizes said
15 DTMF signals with said voice path.

9. A system according to claim 7, wherein said subscriber uses a short code dependent upon the location of said subscriber to access said second service node.

20 10. A system according to claim 7, wherein said first service node instructs said second service node via said packet-switch network to generate and send a short message.

11. A system according to claim 7, further comprising:

a user profile of said subscriber, said user profile comprising at least a subscriber calling line identification (CLI),

wherein said subscriber CLI is required for access to said services.

12. A system according to claim 11, wherein said second service node receives said subscriber CLI from DTMF signals sent by said subscriber.

13. A system according to claim 11, wherein said second service node receives a second CLI from said second telephone network and said second CLI is associated with said subscriber CLI.

14. A system according to claim 11, wherein said second service node creates a voice path connecting said second telephone network with said first telephone network using a second CLI of said second service node, and wherein said first service node replaces said second CLI with said subscriber CLI when accessing one of said services.

15. A system according to ~~any of claims 1-14~~, wherein said services include voice message notification.

16. A system according to ~~any of claims 1-14~~, wherein said services include voice message retrieval.

17. A method for providing a roaming subscriber with access to services available in a first telephone network, the method comprising the steps of:

connecting said first telephone network to a second telephone network using a packet-switch network, said subscriber roaming in said second telephone network; and

transmitting signals for said services over said packet-switch network.

18. A method according to claim 17, wherein said first telephone network is one of a group including: a mobile telephone network, a fixed telephone network, a Global System for Mobile communications (GSM) network, a Time Division Multiple Access (TDMA) network, a Code Division Multiple Access (CDMA) network, an IS-41 network, and a private branch exchange (PBX).
19. A method according to claim 17, wherein said second telephone network is one of a group including: a mobile telephone network, a fixed telephone network, a Global System for Mobile communications (GSM) network, a Time Division Multiple Access (TDMA) network, a Code Division Multiple Access (CDMA) network, an IS-41 network, and a private branch exchange (PBX).
20. A method according to claim 17, further comprising the steps of:
- monitoring SS7 signals; and
 - upon detection of one of a group of predetermined SS7 signals, triggering the provision of access to at least one of said services.
21. A method according to claim 20, wherein said predetermined SS7 signals are Mobile Application Part (MAP) messages.
22. A method according to claim 21, wherein said messages are from a group including: short messages and location updates.
23. A method according to claim 17, further comprising the steps of:
- transferring dial tone multi-frequency (DTMF) signals over said packet-switch network;

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substantially
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concurrently with said step of transferring, creating a voice path connecting said first telephone network with said second telephone network; and

synchronizing said DTMF signals with said voice path.

5 24. A method according to claim 17, further comprising the step of:
using a short code dependent upon the location of said subscriber to access one of said services.

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25. A method according to claim 17, further comprising the step of:
accessing said services using a subscriber calling line identification (CLI) stored in a user profile of said subscriber.

10 26. A method according to claim 25, further comprising the step of receiving said subscriber CLI from DTMF signals sent by said subscriber.

27. A method according to claim 25, further comprising the step of receiving a second CLI from said second telephone network, wherein said second CLI is associated with said subscriber CLI.

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28. A method according to claim 25, further comprising the steps of:
creating a voice path connecting said second telephone network with said first telephone network using a second CLI; and
replacing said second CLI with said subscriber CLI when accessing one of said services.

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29. A method according to ~~any of claims 17 - 28~~, wherein said services include voice message notification.

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30. A method according to ~~any of claims 17 - 28~~, wherein said services include voice message retrieval.